

Technology and the Ammunition Base



Presented By:

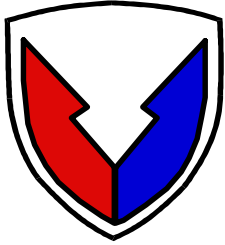
Major General John S. Caldwell, Jr.

Commanding General, Tank-Automotive and Armaments Command

Presented to:

Munitions Executive Summit

12 January 2000



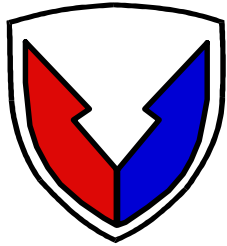
TACOM ROLE IN MEDIUM FORCE:



To lead IPT which will solicit, select and execute the Medium Force Vision/Requirements

MEDIUM FORCE REQUIREMENTS:

- **Equipment weight 20 ton max**
- **Equipment C-130 transportable**
- **Range, Accuracy and Lethality like Heavy systems**
- **Sustain 7 Day fight with no resupply**
- **Minimal logistics footprint**

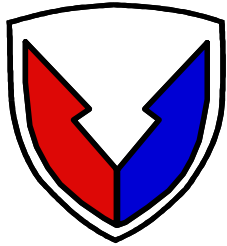


MEDIUM FORCE PROGRAM PHASES



- 1. 00-03 Initial Brigade
Off the Shelf Systems**
- 2. 03-10 Interim Brigade
Technology Insertions**
- 3. 10-13 Objective Force
Implement Future Combat System**

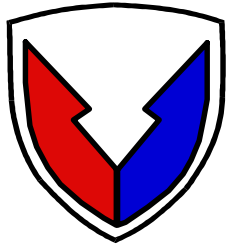
**S&T Focused
on Objective
Force**



TACOM BRIGADE COMBAT TEAM (BCT)



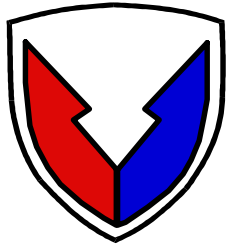
- Draft BCT RFP available for industry comment due 31 Jan 00
- BCT Solicitation Web site
www.tacom.army.mil/acqcen/majorsys/brigade/brigade.htm
- Purpose of BCT acquisition is to acquire the "Interim Focus" Capability
 - Family of Vehicles
 - Data
 - Logistics/Sustainment
 - Brigade Support
 - With Technical Insertion
- FUE 31 Mar 01 - Initial Brigade



AMMUNITION ITEMS TO BE CONSIDERED



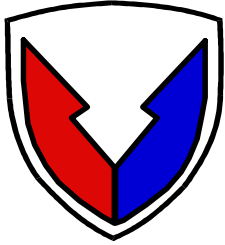
- Precision Guided Mortar Munition
- Objective Individual Combat Weapon/Objective Crew Served Weapon
- Tank Extended Range Munition
- Sense & Destroy Armor PI
- Raptor (Wide Area Munition)



AMMUNITION TECHNOLOGY INSERTION



- GPS/INS - Terminal Guidance
- Micro Electro Mechanical System
- Enhanced Energetics
- Composites
- Multi Purpose Penetrators/Liners
- Precision Munitions
- Advanced Warhead Liner Materials



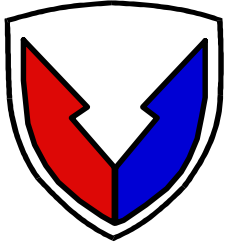
BASE IMPLICATIONS 05-10



- **Electronics/MEMS - Focus for smart rds.**
- **Composites - Focus for light weight rds.**
- **Insensitive Energetics - Focus for survivability.**

Bottom Line: Manufacture will be science based, fully modeled, flexible and integrated.

Issue: Replenishment for Smart Rounds will require a new approach.



TRIAD ASSESSMENT



- **Technology is changing quickly**
- **Ammunition must keep up with technology if it is to stay relevant to the warfighter especially in light of the Medium Force Initiative**
- **TRIAD must embrace these ideas and plan and execute accordingly**